ZILFIMIAN



KNN2/KNN (Q9L10)

26% (5/19)

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- 1. KNN is
- A data-driven method
- (B) model-driven method
- C I do not know

X 2. The dependent variable of the classification is

- (A) categorical
- B numeric
- (c) I do not know

X 3. KNN can be used for regression

- A Yes
- B No
- (c) I do not know

× 4. In the case of KNN classification we use

- A average of outcomes
- (B) majority voting scheme
- (c) I do not know

★ 5. Which of these errors will increase constantly by increasing k?

- (A) train error
- B) test error
- **c** both
- D I do not know

6. This function can be used to perform KNN classification in R

- (A) knn()
- B k_nn()
- knnreg()
- D knearneib()
- (E) I do not know

X	10.	In the case of small k we have	
	A	overfitting	
	\bigcirc B	underfitting	
	C	it depends on the situation	
	D	I do not know	
~	11.	Why do we need scaling in KNN?	
	(A)	to avoid overfitting	
	(B)	to avoid underfitting	
	C	to have "equal" weights for variables	
		I do not know	
~	12. A B C D	Let k = n, (n- number of observations), K-NN is same as random guessing everything will be classified as the most probable class (in total) everything will be classified as the least probable class (in total) I do not know	
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X 7. With the increase of k, the decision boundary will be

(A) simplified

True False

× 9. KNN

more complex

I do not know

I do not know

I do not know

× 8. KNN algorithm is sensitive to outliers

(A) is a supervised learning algorithm.

is an unsupervised learning algorithm.

unchanged

X	13.	This function can be used to perform K-NN regression in R
	A	knn.reg
	\bigcirc B	knnforreg
	\bigcirc	regknn
	D	knnforregression
	E	I do not know
	14.	Do you need to worry about scaling with one explanatory variable?
	A	No
	\bigcirc B	Yes
	(C)	I do not know
×	15.	n - the number of observation, the number of explanatory variables
	WN A	en n=k, m=1, the decision boundary for regression is a line
	B	a stepwise constant function
	\overline{C}	a stepwise quadratic function
	(b)	I do not know
×	16.	Which of these algorithms can be used to fill the missing values
	\bigcirc A	KNN for regression
	В	KNN for classification
	\bigcirc	both
	D	I do not know
X	17. ?	Which one is better: KNN regression or Linear regression
	A	KNN outperform LR if the parametric form that has been selected is close to the true form of f
	В	LR outperform KNN if the parametric form that has been selected is close to the true form of f
	\overline{C}	KNN will always outperform the LR
	(D)	I do not know

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18. Which one is the Disadvantage of KNN? A required assumptions B cannot be applied for regression C difficult to perform D the problem of high dimensional data E I do not know 19. The best k for train set equals to A 1 B 2

20. What is the Parzen window

I do not know

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